

Three-way valve 7080

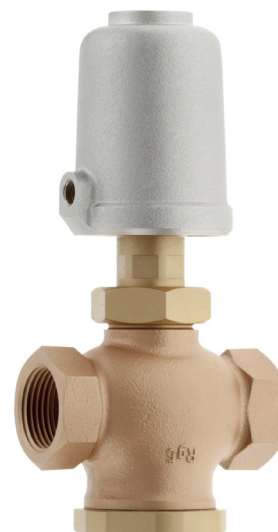


DN 15 to DN 40

Pneumatically operated three-way valve for controlling neutral and conditionally aggressive fluids.

(stainless steel version see brochure Type 7081)

- Compact design
- Insensitive to slightly soiled media
- For temperatures from -40°C to +200°C
- Operating pressures up to 16 bar
- Rotatable drives



Technical specifications

housing material	gunmetal
nominal widths	DN 15 to DN 40
connections	Pipe thread according to ISO 7/1 (DIN EN 10226-1) Rp 1/2" - 1 1/2" NPT - thread 1/2" - 1 1/2"
nominal pressure	PM 16
Media temperature: with metal hood	- 30°C to +170°C, opt. -40°C to +200°C
with plastic hood	- 30°C to +135°C
ambient temperature	- 30°C to +60°C
viscosity of the medium	max. 600 mm ² /s (600cSt, 80°E)
Leakage according to EN 12266-1	Leakage class A
leakage pack	Tested according to TA-Luft DIN EN ISO 15848-1 and VDI 2440

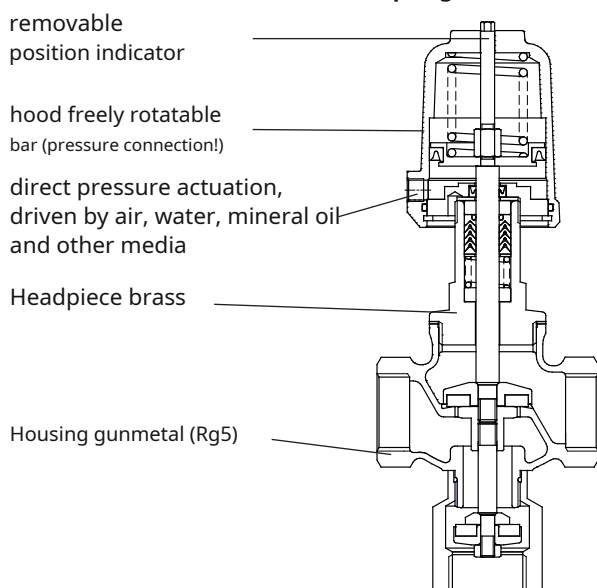
* : Please note further temperature versions and temperature limits in information sheet 32

options

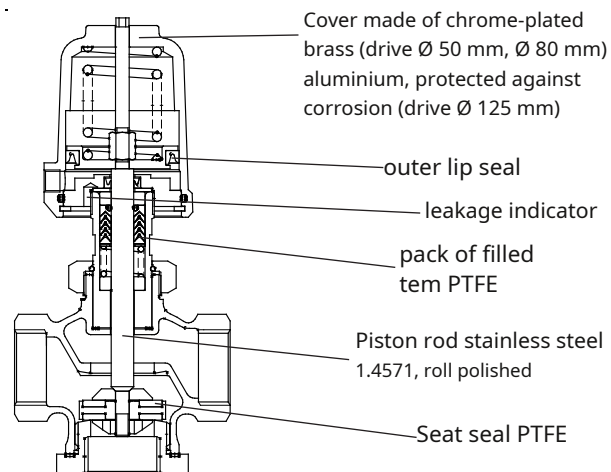
e.g. e.g.:

- Limit switch
 - inductive proximity switch
 - electrical contact switch
 - pneumatic switches
- pilot valves
- Manual override
- Oil and grease-free design

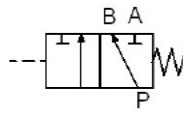
Drive: spring closes



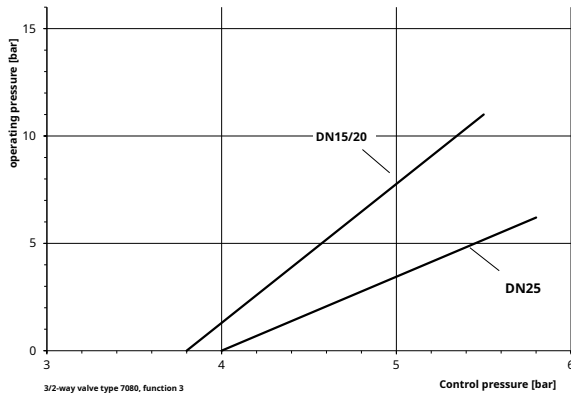
split/merge function shut-off function



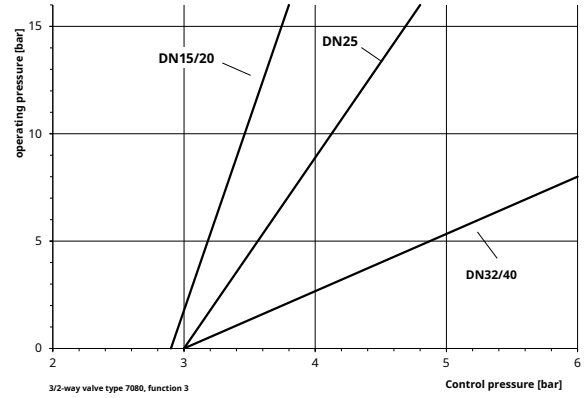
Three-way valve, split function (3)



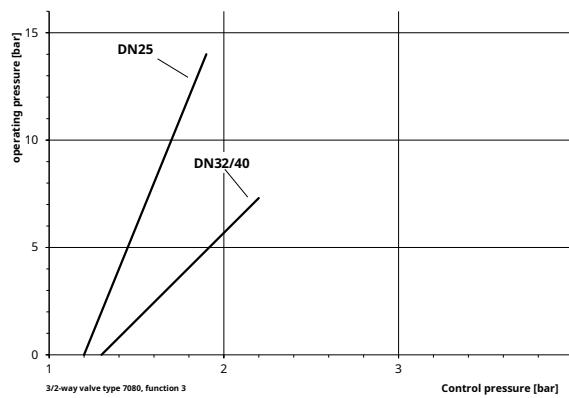
Drive diameter 50 mm



Drive diameter 80 mm



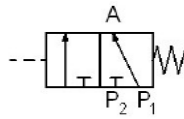
Drive diameter 125 mm



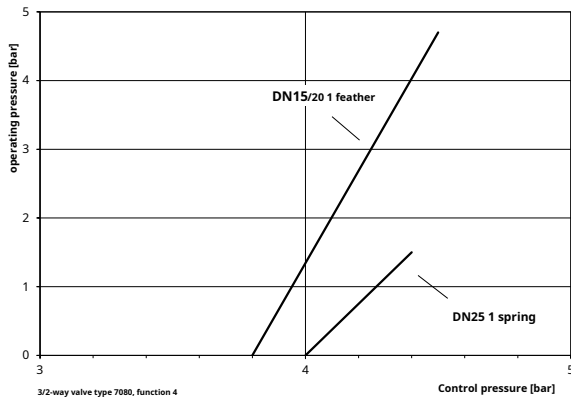
Max. permissible control pressure

nominal size DN	drive mm	Print- feathers	max. tax pressure (bar)
15/20	50	1	9
15/20	80	1	7
25	50	1	9
25	80	1	7
25	125	1	2.8
32/40	80	1	7
32/40	125	1	3

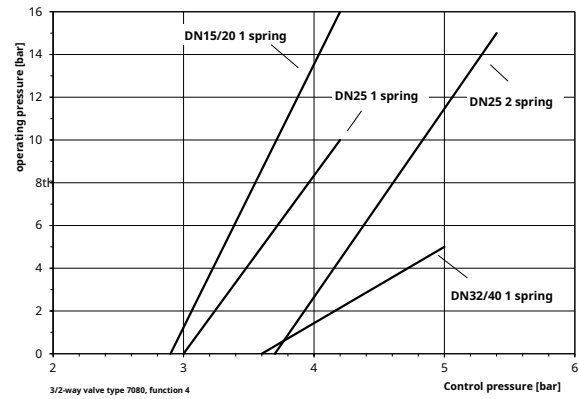
Three-way valve, mixing function (4)



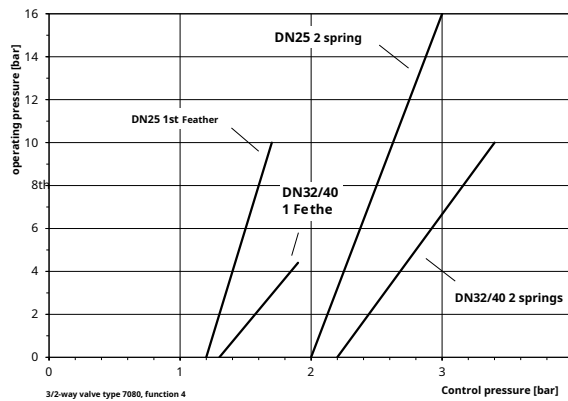
Drive diameter 50 mm



Drive diameter 80 mm



Drive diameter 125 mm

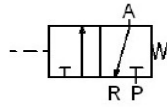


Max. permissible control pressure

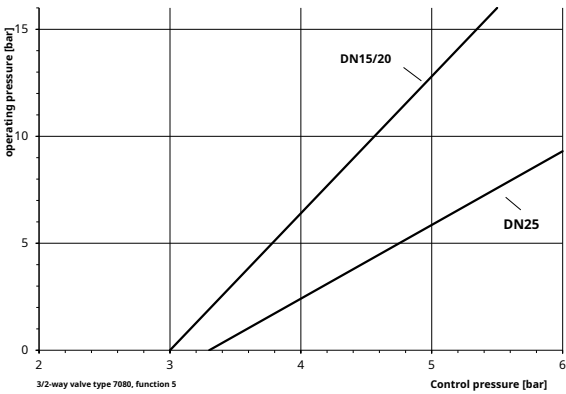
nominal size DN	drive mm	Print- feathers *	max. tax pressure (bar)
15/20	50	1	9.8
15/20	80	1	7.2
25	50	1	9.8
25	80	1	7.2
25	80	2	7.9
25	125	1	2.8
25	125	2	3.6
32/40	80	1	7.7
32/40	125	1	3
32/40	125	2	3.9

* Standard spring assembly 1
compression spring

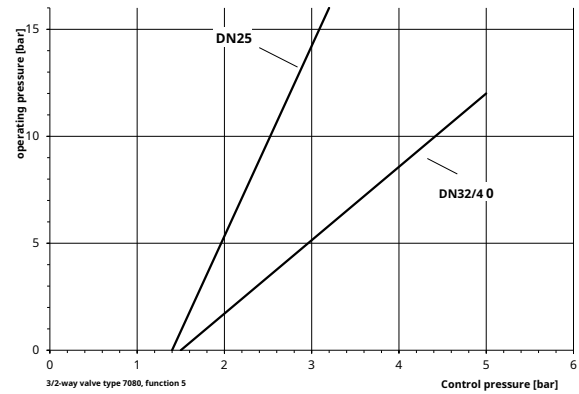
Three-way valve, actuator: spring closes (5)



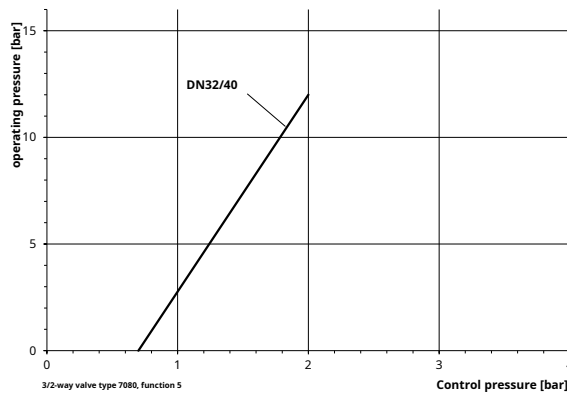
Drive diameter 50 mm



Drive diameter 80 mm



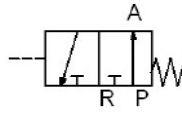
Drive diameter 125 mm



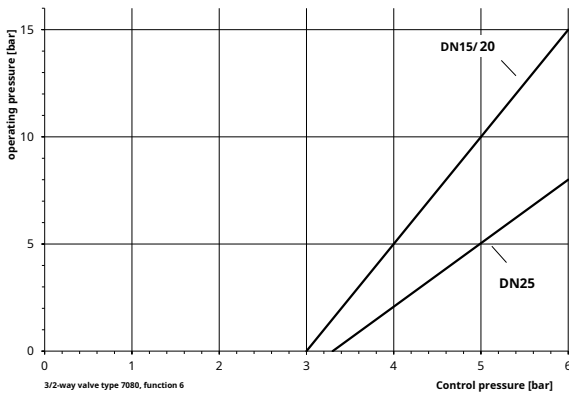
Max. permissible control pressure

nominal size DN	drive mm	max. tax pressure (bar)
15/20	50	9
25	50	9
25	80	5.6
32/40	80	5.5
32/40	125	2

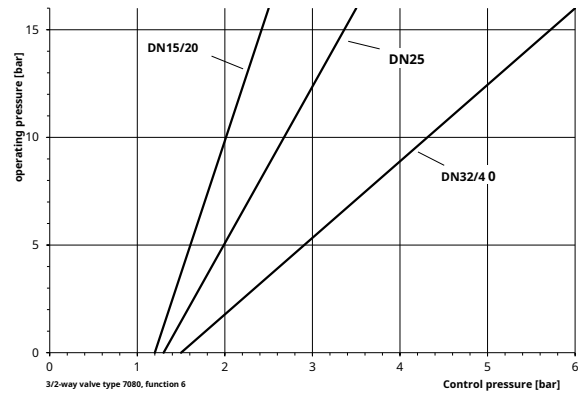
Three-way valve, actuator: spring opens (6)



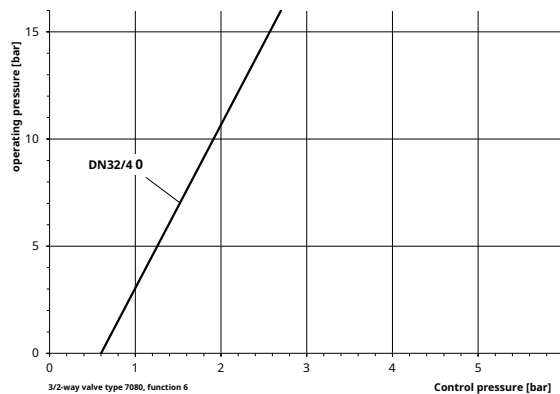
Drive diameter 50 mm



Drive diameter 80 mm



Drive diameter 125 mm

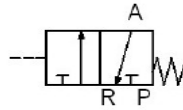


Max. permissible control pressure

nominal size DN	drive mm	Max. Tax-print
15/20	50	9
15/20	80	5
25	50	9
25	80	6.4
25	125	2.6
32/40	125	3.8

Three-way valve 7080

Three-way valve, shut-off function (7)



nominal size DN	diff. pressure max (bar)	control pressure (bar)	drive mm	Feathers *
DN15/20	4.5	3.8 - 9.7	D50	1
DN15/20	9	4.8 - 10	D50	2
DN25	3.5	4.9-10	D50	2
DN15/20	16	2.9 - 7.2	D80	1
DN25	10	3.2 - 7.4	D80	1
DN25	16	4.4 - 8.7	D80	3
DN32/40	7	4.4 - 8.5	D80	2
DN32/40	9	5.4 - 9.5	D80	3
DN32/40	4	1.5 - 3.0	D125	1
DN32/40	10	2.2 - 3.9	D125	2
DN32/40	14	3.0 - 4.6	D125	3

* : Default

Order number system

1 2 3 4 5 6 7 8 9 10 11 12

7 0 8th0 / / / / / V / / / / / / / S

1 - 6 : Please enter all 6 digits
7 - 12: Only enter if necessary

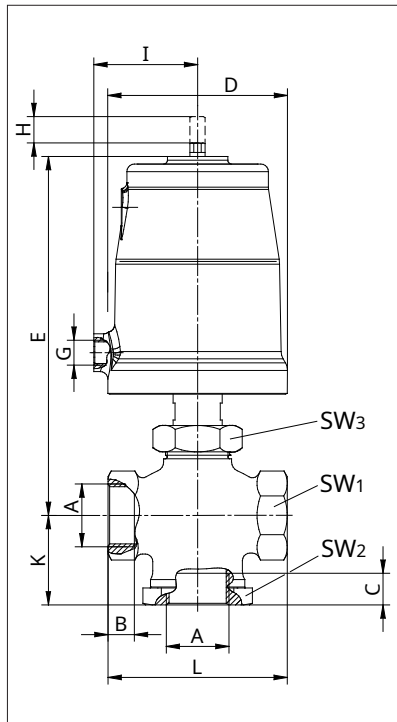
Type nominal size

Symbol: "V": valve
"A": actuator (valve without housing)
"R": repair kit (seals)

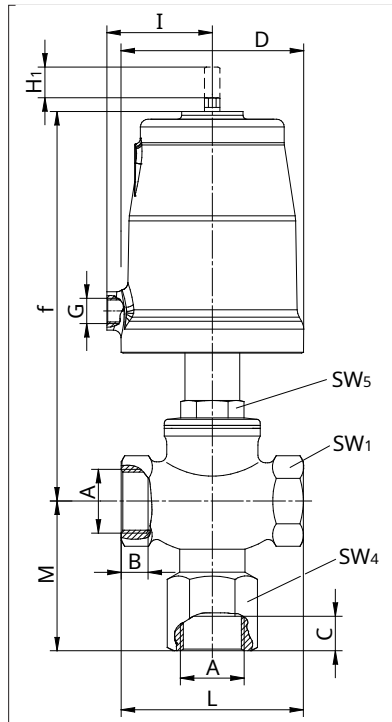
1. design	2. Connection	3. Housing-material	4. seat seal	5. control function	6. drive
3 3/2 way, split function	0 pipe thread according to ISO 228-1	1 gunmetal rg 5	0 PTFE	0 spring closes (for type 3/4/5/7)	0 Piston Ø50mm
4 3/2 way, mixing function	5 NPT thread (1/2" to 1 1/2")			1 spring opens (for type 6)	1 Piston Ø80mm
5 3/2 way, spring closes				3 double acting	2 Piston Ø125mm
6 3/2 way, spring opens					
7 3/2 way, shut-off function on NC					
7. piston springs	8th.	9. pack	10 Temperature-execution	11. Accesories	12. special remarks
- Default-assembly 1 feather 2 springs 3 springs	- here without interpretation	- default dead space free	- default high-temp natural execution	- without accessories 1 1 limit signal transmitter (micro switch) 2 2 limit signal transmitters (micro switch) 3 manual override 4 manual override 5 stroke limitation 6 pilot valve cpl. DN2, 230VAC 7 pilot valve cpl. DN2, 24VDC 1 K limit switch compact M 2 limit signal transmitters inductive, 10-36V DC, (PNP) P 1 limit signal transmitter inductive, 10-36V DC, (PNP) T 1 limit signal transmitter compact inductive, 10-30Vdc PNP	S special ments M el. position indicator with cable grommet tion N el. position indicator with plug

Order example: 7080/025V601011- - - - 7:
3/2-way valve, DN 25, gunmetal body with connection pipe thread according to DIN 2999, seat seal PTFE, actuator Ø 80 mm - spring opens, pilot valve DN 2, 24 V DC;

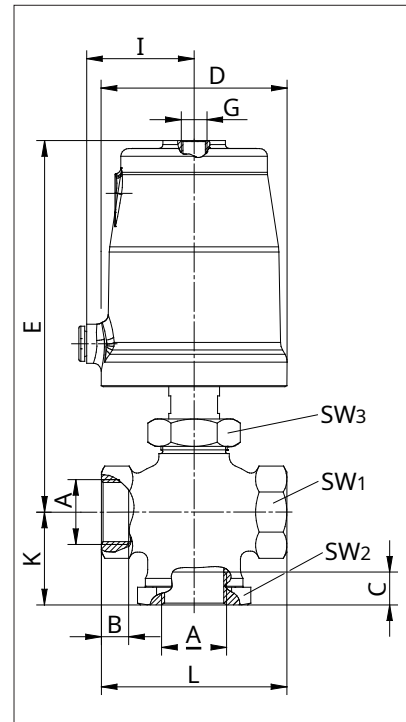
mass and weight



Divide and mix function
shut-off function (7)



Drive: spring closes

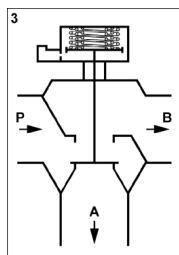


Drive: Spring opens

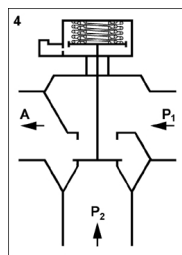
DN	effective samer drive	A	B	C G	C NPT	D	E	f	G	H (hub)	H1 (hub)	I	K	L	M	SW1	SW2	SW3	SW4	SW5	kvs Value	sex important (kg)
15	50	Rp1/2"	13	13.2	15	62	152	147	1/8"	9	5	34.5	39	80	68	33	41	41	36	30	5.3	1.5
15	80	Rp1/2"	13	13.2	15	98	191	186	1/4"	9	5	55	39	80	68	33	41	41	36	30	5.3	3.1
20	50	Rp3/4"	13	16.3	15	62	152	147	1/8"	9	5	34.5	42	80	68	33	41	41	36	30	7.3	1.5
20	80	Rp3/4"	13	16.3	15	98	191	186	1/4"	9	5	55	42	80	68	33	41	41	36	30	7.3	3.1
25	50	Rp1"	14	16.8	18	62	152	165	1/8"	11	8th	34.5	47	95	73	41	55	41	41	30	12.3	1.9
25	80	Rp1"	14	16.8	18	98	191	204	1/4"	11	8th	55	47	95	73	41	55	41	41	30	12.3	3.5
25	125	Rp1"	14	16.8	18	146	215	228	1/4"	11	8th	80	47	95	73	41	55	41	41	30	12.3	5.6
32	80	Rp1 1/4"	18	19	19	98	208	211	1/4"	18.5	9	55	61	132	93	58	75	41	55	32	20	4.8
32	125	Rp1 1/4"	18	19	19	146	232	235	1/4"	18.5	9	80	61	132	93	58	75	41	55	32	20	6.7
40	80	Rp1 1/2"	18	19	19	98	208	211	1/4"	18.5	9	55	61	132	93	58	75	41	55	32	23	4.8
40	125	Rp1 1/2"	18	19	19	146	232	235	1/4"	18.5	9	80	61	132	93	58	75	41	55	32	23	6.7

size in mm

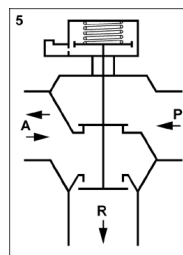
finishes



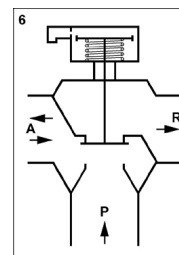
allocation
function



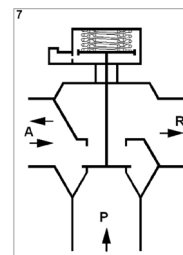
mixed
function



Drive:
spring closes



Drive:
spring opens



shut-off function
spring closes