

3/2 - Way Valve 7080



with metal actuator 1/2" up to 1 1/2"

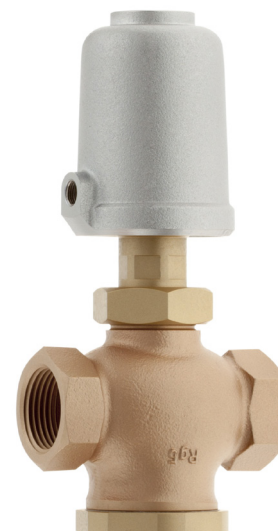
Pneumatically operated 3/2-way valve for the control of neutral and slightly aggressive media.
(Stainless steel version, data sheet Type 7081)

- Compact design
- Unaffected by lightly contaminated media
- For temperatures from -22°F up to +392°F
- Working pressure up to 235 psi

Technical Information

Body material	Bronze
Nominal sizes	1/2" - 1 1/2"
Connections	NPT thread
Nominal pressure	235 psi
Max. fluid temperature:	
with metal bonnet	-22°F to +338°F, opt. +392°F
with plastic bonnet	-22°F to +275°F
Ambient temperature	-22°F to +140°F
Viscosity of the media	maximum 600cSt, 80°E (600 mm ² /s)

*: Please consider further temperature versions and limits in technical bulletin 32



Options

- limit switches
 - inductive proximity switches
 - mechanical limit switches
- solenoid valves
- manual override
- O2-cleaned version

normal function, normally closed

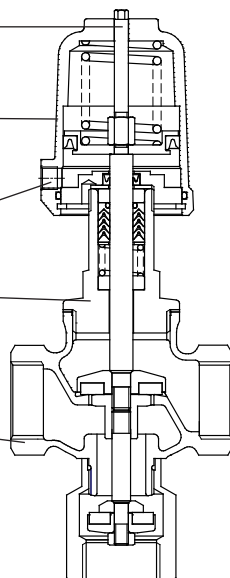
Removable position indicator

Bonnet can be rotated as required

Direct pressure control (with pilot valve if required) actuation by air, water, mineral oil and other media

Head section brass

Body bronze (Rg 5)



diverting and mixing function shut - off function

Bonnet material brass, chrome plated (actuator Ø 2", Ø 3"), aluminium (actuator Ø 5")

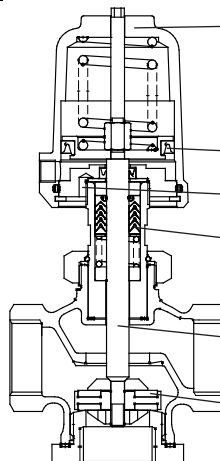
Exterior lip sealing

Leak detector

PTFE packing

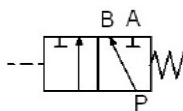
Piston rod, roller burnished stainless steel 316 Ti

Seating seal in PTFE

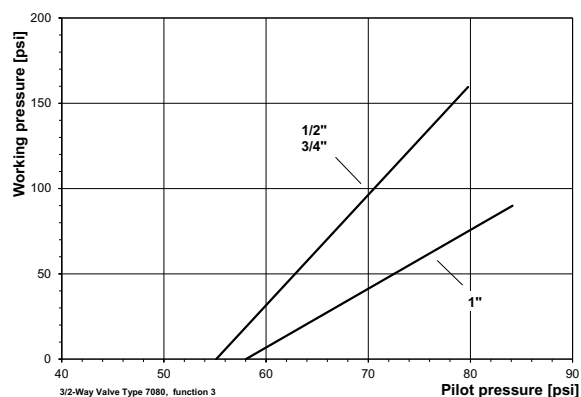


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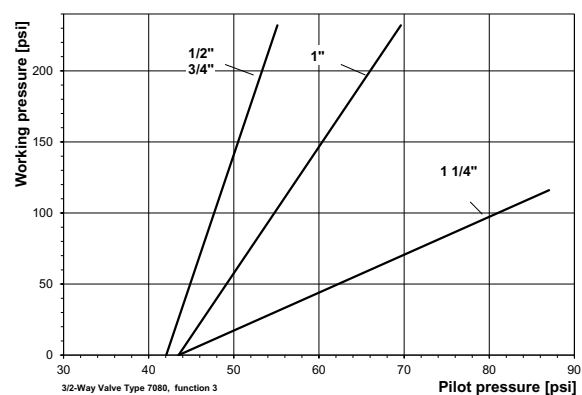
3/2-way valve, diverting function (3)



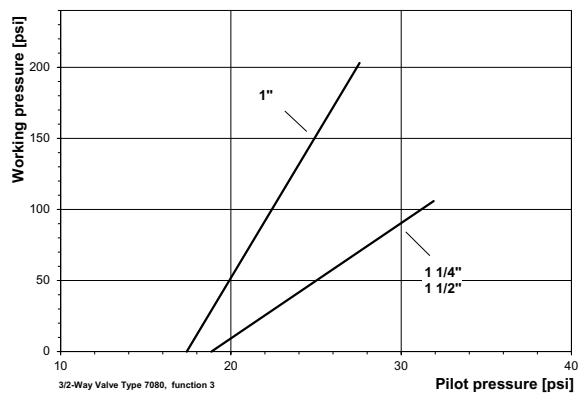
Actuator diameter 2"



Actuator diameter 3"



Actuator diameter 5"

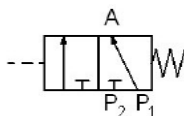


max. adm. pilot pressure

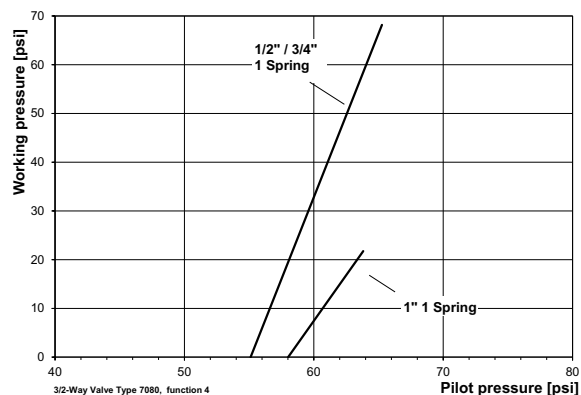
Nominal size	Actuator Ø	Springs	max. Pilot pressure (psi)
1/2" + 3/4"	2"	1	130
1/2" + 3/4"	3"	1	100
1"	2"	1	130
1"	3"	1	100
1"	5"	1	40
1 1/4" + 1 1/2"	3"	1	100
1 1/4" + 1 1/2"	5"	1	45

3/2 - Way Valve 7080

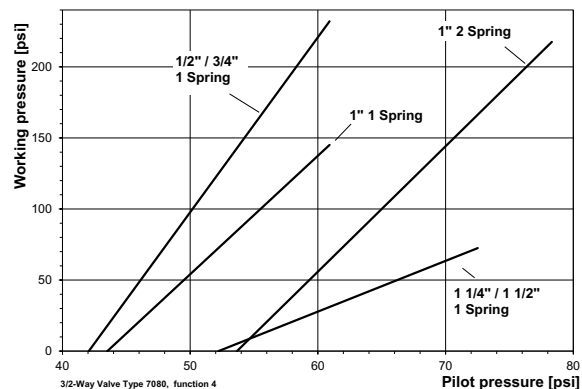
3/2-way valve, mixing function (4)



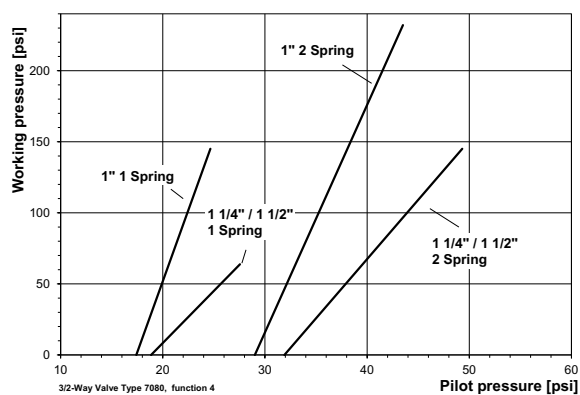
Actuator diameter 2"



Actuator diameter 3"



Actuator diameter 5"



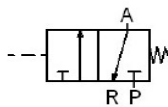
max. adm. pilot pressure

Nominal size	Actuator Ø	Springs *	max. Pilot pressure (psi)
1/2" + 3/4"	2"	1	140
1/2" + 3/4"	3"	1	105
1"	2"	1	140
1"	3"	1	105
1"	3"	2	115
1"	5"	1	40
1"	5"	2	50
1 1/4" + 1 1/2"	3"	1	110
1 1/4" + 1 1/2"	5"	1	45
1 1/4" + 1 1/2"	5"	2	55

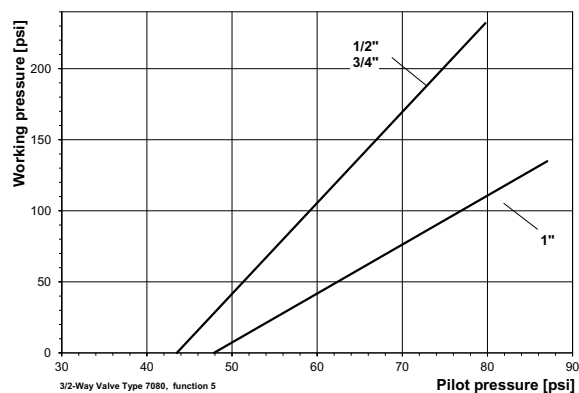
* standard spring configuration
1 spring

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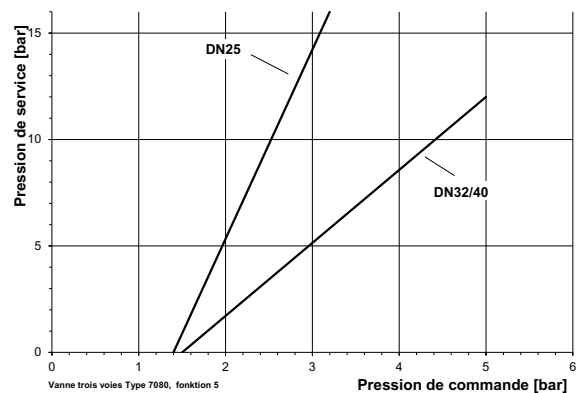
3/2-way valve, normally closed (5)



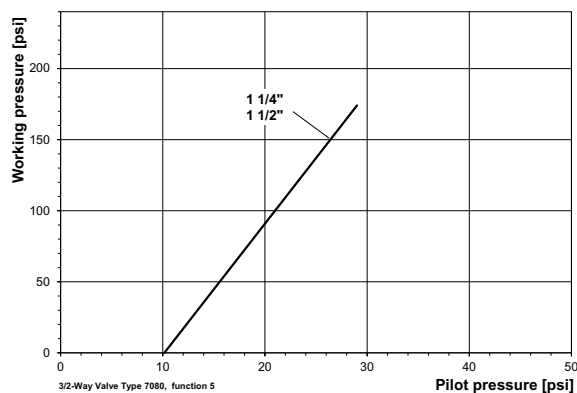
Actuator diameter 2"



Actuator diameter 3"



Actuator diameter 3"

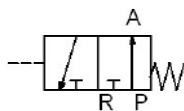


max. adm. pilot pressure

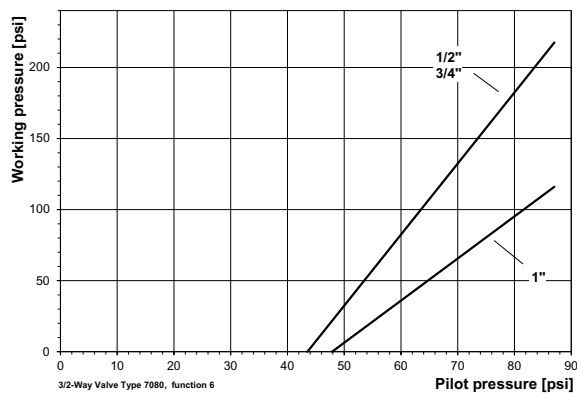
Nominal size	Actuator Ø	max. Pilot pressure (psi)
1/2" + 3/4"	2"	130
1"	2"	130
1"	3"	75
1 1/4" + 1 1/2"	3"	75
1 1/4" + 1 1/2"	5"	30

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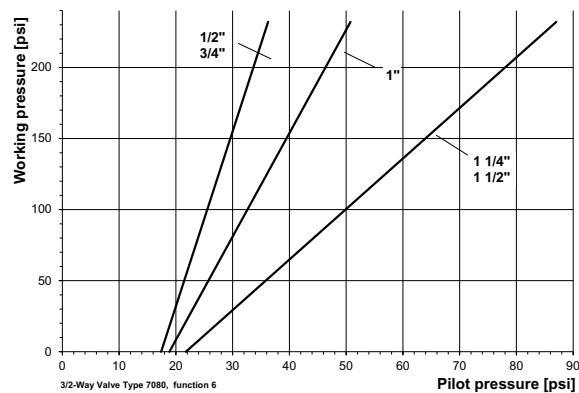
3/2-way valve, normally open (6)



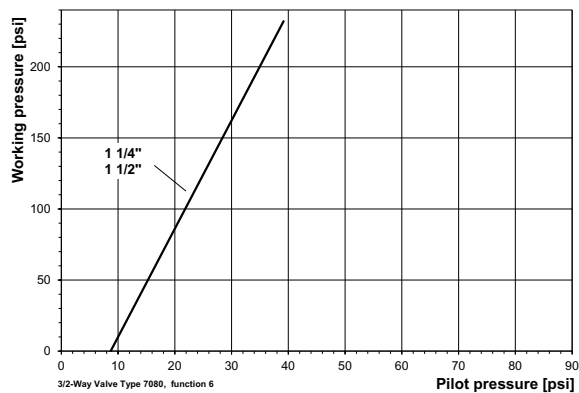
Actuator diameter 2"



Actuator diameter 3"



Actuator diameter 3"



max. adm. pilot pressure

Nominal size	Actuator Ø	max. Pilot pressure (psi)
1/2" + 3/4"	2"	130
1/2" + 3/4"	3"	75
1"	2"	130
1"	3"	95
1"	5"	40
1 1/4" + 1 1/2"	5"	55

SCHUBERT & SALZER
INC.

* standard

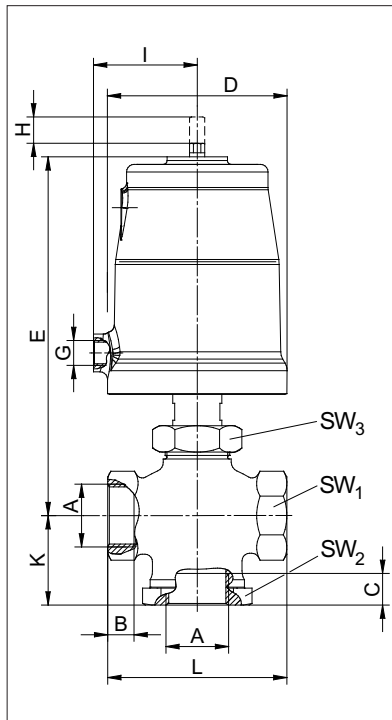
[illegible]

7 - 12: Quote only if required.

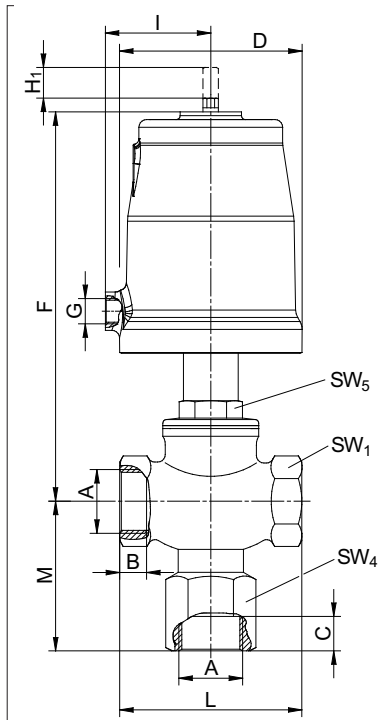
7. Springs		8.		9. Packing		10. Temperature version		11. Accessories		12. Special versions	
-	standard	-	without significance	-	standard	-	standard	-	no accessories	S	special versions
1	1 spring			2	inverted, vacuum	H	high temperature version	1	electrical position indicator with one switch		
2	2 springs					V	viton exterior lip sealing	2	electrical position indicator with two switches		
3	3 springs							3	manual emergency operation		
								4	aAdditional manual operation		
								5	stroke limitation		
								6	pilot valve DN 2, 230 V AC		
								7	pilot valve DN 2, 24 V DC		
								K	electr. position indicator compact		
								M	position indicator with two ind. switch 10 - 36 V DC (PNP)		
								P	position indicator with one ind. switch 10 - 36 V DC (PNP)		
								T	position indicator compact, inductive 10 - 30 V DC (PNP)		

3/2-way valve 1", normal function, NPT thread, body material bronze, PTFE seat material, diverting function, actuator 3", pilot valve 24 V DC.

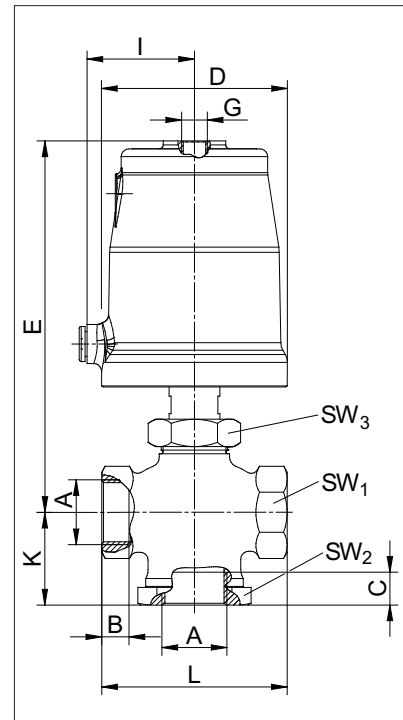
Dimension and Weights



diverting and mixing function
shut-off function (7)



normal function, normally closed

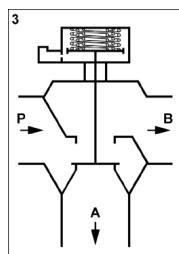


normal function, normally open

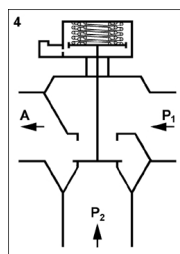
Size	piston	A	B	C	C NPT	D	E	F	G	H stroke	H1 stroke	I	K	L	M	SW1	SW2	SW3	SW4	SW5	Cv value	Weight lbs
1/2"	2"	1/2"	0,5	0,5	0,6	2,45	6	5,8	G 1/8"	0,35	0,2	1,35	1,55	3,15	2,7	1,3	1,6	1,6	1,4	1,2	6,1	3,3
1/2"	3"	1/2"	0,5	0,5	0,6	3,85	7,5	7,3	G 1/4"	0,35	0,2	2,15	1,55	3,15	2,7	1,3	1,6	1,6	1,4	1,2	6,1	6,8
3/4"	2"	3/4"	0,5	0,65	0,6	2,45	6	5,8	G 1/8"	0,35	0,2	1,35	1,65	3,15	2,7	1,3	1,6	1,6	1,4	1,2	8,5	3,3
3/4"	3"	3/4"	0,5	0,65	0,6	3,85	7,5	7,3	G 1/4"	0,35	0,2	2,15	1,65	3,15	2,7	1,3	1,6	1,6	1,4	1,2	8,5	6,8
1"	2"	1"	0,55	0,65	0,7	2,45	6	6,5	G 1/8"	0,43	0,31	1,35	1,85	3,75	2,85	1,6	2,15	1,6	1,6	1,2	14,3	4,2
1"	3"	1"	0,55	0,65	0,7	3,85	7,5	8,05	G 1/4"	0,43	0,31	2,15	1,85	3,75	2,85	1,6	2,15	1,6	1,6	1,2	14,3	7,7
1"	5"	1"	0,55	0,65	0,7	5,75	8,45	9	G 1/4"	0,43	0,31	3,15	1,85	3,75	2,85	1,6	2,15	1,6	1,6	1,2	14,3	12,3
1 1/4"	3"	1 1/4"	0,7	0,75	0,75	3,85	8,2	8,3	G 1/4"	0,73	0,35	2,15	2,4	5,2	3,65	2,3	2,95	1,6	2,15	1,25	23,2	10,6
1 1/4"	5"	1 1/4"	0,7	0,75	0,75	5,75	9,15	9,25	G 1/4"	0,73	0,35	3,15	2,4	5,2	3,65	2,3	2,95	1,6	2,15	1,25	23,2	14,7
1 1/2"	3"	1 1/2"	0,7	0,75	0,75	3,85	8,2	8,3	G 1/4"	0,73	0,35	2,15	2,4	5,2	3,65	2,3	2,95	1,6	2,15	1,25	26,7	10,6
1 1/2"	5"	1 1/2"	0,7	0,75	0,75	5,75	9,15	9,25	G 1/4"	0,73	0,35	3,15	2,4	5,2	3,65	2,3	2,95	1,6	2,15	1,25	26,7	14,7

Dimensions in inches

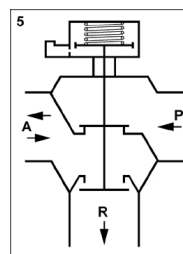
Versions



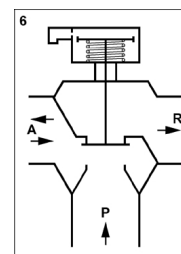
diverting
function



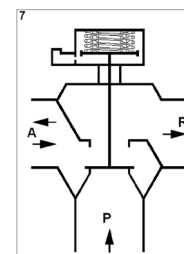
mixing
function



actuator
NC



actuator
NO



shut-off function
NC