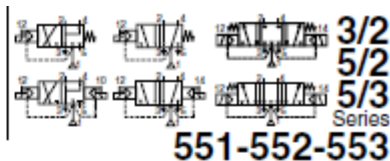


**ASCO®****SPOOL VALVES**

pilot operated or air operated, spool type  
single/dual solenoid or air (mono/bistable function)  
aluminium body, "NAMUR" style, 1/4 to 1/2

**FEATURES**

- The monostable spool valves have TÜV-EXIDA certified IEC 61508 Functional Safety data and can be used up to SIL 4 (551/TÜV)-SIL 3 (552-553/EXIDA)
- The spool valves have threaded port connections and "NAMUR" style interface
- The same spool valve can be adapted for 3/2 NC or 5/2 function for controlling double-acting and single-acting actuators
- All the exhaust ports of this spool valve are connectable, providing better environmental protection, particularly recommended for sensitive areas such as clean rooms, and applications in the pharmaceutical and food processing sectors
- The valve offers environmental protection against the ingress of liquids, dusts or any other foreign matter (environmentally-protected construction)
- Epoxy moulded coil for general service applications
- The solenoid valves satisfy all relevant EC Directives

**GENERAL**

Differential pressure  
Flow (Qv at 6 bar)

2 - 10 bar [1 bar = 100 kPa]  
1/4 = 700 l/min (ANR)  
3/8 - 1/2 = 3000 l/min (5/2, 5/3)

| fluids (*)               | temperature range (TS) | seal materials (*)                 |
|--------------------------|------------------------|------------------------------------|
| air, inert gas, filtered | - 25°C to + 60°C       | NBR (nitrile) + PUR (polyurethane) |

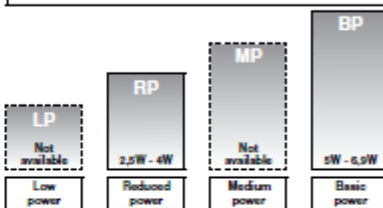
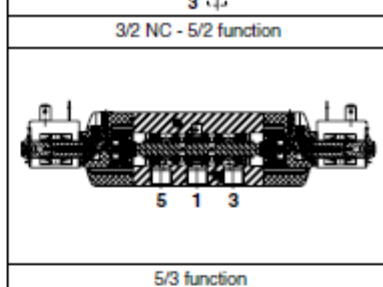
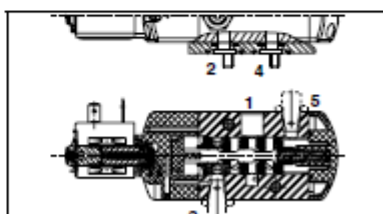
**MATERIALS IN CONTACT WITH FLUID**

(\*) Ensure that the compatibility of the fluids in contact with the materials is verified

|                               |                                          |
|-------------------------------|------------------------------------------|
| Body                          | Aluminium, black anodized                |
| End covers + interface plates | Glass-filled PA                          |
| Internal parts                | Zamak, stainless steel, (POM), aluminium |
| Seals                         | NBR + PUR                                |
| Core and plugnut              | Stainless steel                          |
| Shading coil                  | Copper                                   |

**AIR OPERATED SPECIFICATIONS**

| pipe size                                                             | orifice size | flow coefficient kv | operating pressure differential (bar) |           |         | prefix option | basic catalogue number |
|-----------------------------------------------------------------------|--------------|---------------------|---------------------------------------|-----------|---------|---------------|------------------------|
|                                                                       |              |                     | min.                                  | max. (PS) | air (*) |               |                        |
| (÷)                                                                   | (mm)         | (m³/h)              | (l/min)                               | ~         | =       |               |                        |
| <b>3/2 NC - 5/2 - Air pilot operated - spring return (monostable)</b> |              |                     |                                       |           |         |               |                        |
| 1/4                                                                   | 6            | 0,75                | 12,5                                  | 2         | 10      | 10            | ÷551A101 (P)           |
| 3/8                                                                   | 12           | 2,49                | 41,5                                  | 2         | 10      | 10            | ÷552A101 (P)           |
| 1/2                                                                   | 13           | 3,15                | 52,5                                  | 2         | 10      | 10            | ÷553A101 (P)           |
| <b>3/2 NC - 5/2 - Air pilot operated and return (bistable)</b>        |              |                     |                                       |           |         |               |                        |
| 1/4                                                                   | 6            | 0,75                | 12,5                                  | 2         | 10      | 10            | ÷551A102               |
| 3/8                                                                   | 12           | 2,49                | 41,5                                  | 2         | 10      | 10            | ÷552A102               |
| 1/2                                                                   | 13           | 3,15                | 52,5                                  | 2         | 10      | 10            | ÷553A102               |

**PILOT OPERATED SPECIFICATIONS 5/2**

| pipe size                                                                      | orifice size | flow coefficient kv | operating pressure differential (bar) |           |         | power level | prefix optional solenoids |       |       |      | basic catalogue number |
|--------------------------------------------------------------------------------|--------------|---------------------|---------------------------------------|-----------|---------|-------------|---------------------------|-------|-------|------|------------------------|
|                                                                                |              |                     | min.                                  | max. (PS) | air (*) |             | ATEX / IECEx              |       |       | IP65 |                        |
| (÷)                                                                            | (mm)         | (m³/h)              | (l/min)                               | ~         | =       | ~/=         | -                         | Ex mb | Ex mb | -    |                        |
| <b>3/2 NC - 5/2 - Solenoid air pilot operated - spring return (monostable)</b> |              |                     |                                       |           |         |             |                           |       |       |      |                        |
| 1/4                                                                            | 6            | 0,6                 | 10                                    | 2         | 10      | 10          | RP                        | •     | -     | •    | ÷551A001 (P)           |
| 1/4                                                                            | 6            | 0,6                 | 10                                    | 2         | 10      | 10          | RP                        | -     | •     | -    | X÷551A001 20787 (P)    |
| 3/8                                                                            | 12           | 2,49                | 41,5                                  | 2         | 10      | 10          | RP-BP                     | •     | •     | •    | ÷552A001 (P)           |
| 1/2                                                                            | 13           | 2,49                | 41,5                                  | 2         | 10      | 10          | RP-BP                     | •     | •     | •    | ÷553A001 (P)           |
| <b>3/2 NC - 5/2 - Solenoid air pilot operated and return (bistable)</b>        |              |                     |                                       |           |         |             |                           |       |       |      |                        |
| 1/4                                                                            | 6            | 0,6                 | 10                                    | 2         | 10      | 10          | RP                        | -     | •     | -    | ÷551A002               |
| 1/4                                                                            | 6            | 0,6                 | 10                                    | 2         | 10      | 10          | RP                        | -     | -     | -    | X÷551A002 20787        |
| 3/8                                                                            | 12           | 2,49                | 41,5                                  | 2         | 10      | 10          | RP-BP                     | •     | •     | •    | ÷552A002               |
| 1/2                                                                            | 13           | 2,49                | 41,5                                  | 2         | 10      | 10          | RP-BP                     | •     | •     | •    | ÷553A002               |